Q. Provide the details by plant used to derive the 2004 forecast of 4,458 GWh hydroelectric generation based on the full historic record (Production evidence, Table 7, page 30).

A. The following table provides the expected net generation from each of Hydro's hydroelectric plants based upon records for the recommended full historic record.

Plant	Conversion Factor GWh/Mm^3	Historic Inflows Mm^3	Fisheries Releases Requirements Mm^3	Average Spill Mm^3	Useful Water Mm^3	Average Energy GWh
Bay d'Espoir	0.4333	6067.70	32.73	43.30	5991.68	2596
Upper Salmon	0.1295	4387.89	94.33	48.94	4244.62	550
Cat Arm	0.9005	802.22	0.00	20.09	782.13	704
Hinds Lake	0.5380	647.65	14.54	1.61	631.50	340
Granite Canal	N/A	N/A	N/A	N/A	N/A	224
Paradise River	0.0913	528.16	0.00	119.41	408.76	37
Mini-Hydro	N/A	N/A	N/A	N/A	N/A	7.15
TOTAL						***4458***

As noted in NP-64 NLH, with the exception of Granite Canal and the mini-hydro facilities, annual average production is based on historic average water to energy conversion factor for the plant which is applied to the average water available for use at the generating stations. The average water available for use is determined from average historic watershed inflow records with a reduction for water releases due to spill and for fisheries flow requirements.

Fisheries Release Requirements are as per agreement with the Department of Fisheries and Oceans and are based on historic average releases.

The production from the mini-hydro plants is based on actual production, while the estimated production from Granite is based upon a power and energy analysis.